

Notice of Allowability

Application No.

10/784,211

Examiner

James Sells

Applicant(s)

FUJII ET AL.

Art Unit

1734

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed May 30, 2006.
2. ☒ The allowed claim(s) is/are 1-37.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Drawings

1. The drawings filed February 24, 2004 are acceptable.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, in a process for producing a cold-field cathode by patterning an aligned carbon nanotube film on a surface of a substrate, the prior art does not teach or make obvious the concept of bonding a surface of the aligned carbon nanotube film to a surface of the conductive binder and then transferring the aligned carbon nanotube film from the basic first substrate to the conductive binder by stripping the first basic substrate from the conductive binder and the second substrate, leaving those portions of the aligned carbon nanotube film behind which have been bonded to the patterned conductive binder in the manner claimed by the applicant.

Regarding claim 2, in a process for producing a cold-field cathode by patterning an aligned carbon nanotube film on a surface of a substrate, the prior art does not teach or make obvious the concept of bonding a surface of the aligned carbon nanotube film to a surface of a flexible substrate having a reversibly adhesive surface and then transferring the aligned carbon nanotube film from the basic substrate to the flexible substrate by stripping the basic substrate, leaving those portions of the aligned carbon nanotube film behind on the flexible substrate which have been bonded to the surface of the flexible substrate and bonding a surface of the conductive binder to a surface of the

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aligned carbon nanotube film that has been transferred to the flexible substrate and then transferring the aligned carbon nanotube film from the flexible substrate to the conductive binder by stripping the flexible substrate, leaving those portions of the aligned carbon nanotube film behind on the substrate for the electrode which have been bonded to the conductive binder in the manner claimed by the applicant.


Regarding claim 3, in a process for producing a cold-field cathode by patterning an aligned carbon nanotube film on a surface of a substrate, the prior art does not teach or make obvious the concept of bonding a surface of the aligned carbon nanotube film to a surface of a first flexible substrate having a reversibly adhesive surface and then transferring the aligned carbon nanotube film from the basic substrate to the flexible substrate by stripping the basic substrate, leaving those portions of the aligned carbon nanotube film behind on the flexible substrate which have been bonded to the surface of the flexible substrate, bonding a surface of the conductive binder to a surface of the aligned carbon nanotube film that has been transferred to the second flexible substrate and then transferring the aligned carbon nanotube film to the conductive binder by stripping the flexible substrate, leaving those portions of the aligned carbon nanotube film behind on the second flexible substrate which have been bonded to the conductive binder in the manner claimed by the applicant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Telephone/Fax

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Sells whose telephone number is (571) 272-1237. The examiner can normally be reached on Monday-Friday between 9:30 AM and 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Fiorilla can be reached at (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.



**JAMES SELLS
PRIMARY EXAMINER
TECH. CENTER 1700**